



## Product Update

# New Trendmaster® 2000 flexiTIM™: simplified design significantly reduces cost

*Ideal for expansion—100% compatible with existing installations*

by Marco Alcalde

Product Marketing Manager  
Small Machinery Solutions  
Bently Nevada Corporation

**T**rendmaster® 2000 is a proven, high-value hardware and software solution for machinery data management of general-purpose and balance-of-plant rotating machinery. Its worldwide users have been able to reduce plant-wide maintenance expenses, as well as increase asset availability. Now, we have made the Trendmaster 2000 System even better. A redesigned Transducer Interface Module (TIM) provides greater mechanical protection and reduced installation complexity. The new, two-channel flexiTIM™ installs next to the machine on a 1-inch conduit junction box and uses rugged transducer

cables with integral connectors and screw-type terminal blocks for the system cable. This new module simplifies cable and conduit installation, which reduces the cost of installation, expansion, and life cycle support. In many situations, the flexiTIM will help overcome the challenging hurdle of initial system justification. It is also ideal for expanding your current system, as it is 100% compatible with existing installations.

### Business opportunity

In today's industry, the focus has shifted from process control optimization to business optimization. Effective rotating machinery asset management requires a clear understanding of asset condition, so maintenance can be efficiently planned. It also requires a clear understanding of the factors which limit the machine's service life and performance.

Through the automation of data acquisition, reliable asset and process information can be correlated and provided to both operations and reliability personnel 24 hours a day, 365 days a year. Problems are detected before significant damage occurs, allowing people to manage situations as well as identify and solve the fundamental problem.

### Trendmaster® 2000 system

The Trendmaster® 2000 system consists of two layers. The hardware layer is a permanently-installed "sensor bus," which includes transducers and transducer interface modules (TIMs), and a PC data acquisition card installed in the Data Acquisition computer. A cable runs from the PC card to TIMs mounted on housings located near the machinery. Cables from the TIMs connect to transducers mounted on the machinery. This enables a single cable to support up to 255 TIM/Transducer combinations (65 in an Intrinsically Safe installation).

The software layer consists of the data acquisition, display, configuration, and Modbus® and NetDDE server modules. The data acquisition module, along with the Modbus and NetDDE server modules, runs on the Data Acquisition computer under the Microsoft Windows NT™ operating system. The display and configuration modules will run on the Data Acquisition computer, and computers connected to it by Local and Wide Area Networks or remote access via telephone. These modules will run on any of the Microsoft operating systems. The first flexiTIM available will be a two-channel acceleration-to-velocity version.

Contact your local sales representative for more information. ■

\*Modbus® is a registered trademark of Modicon, Inc.

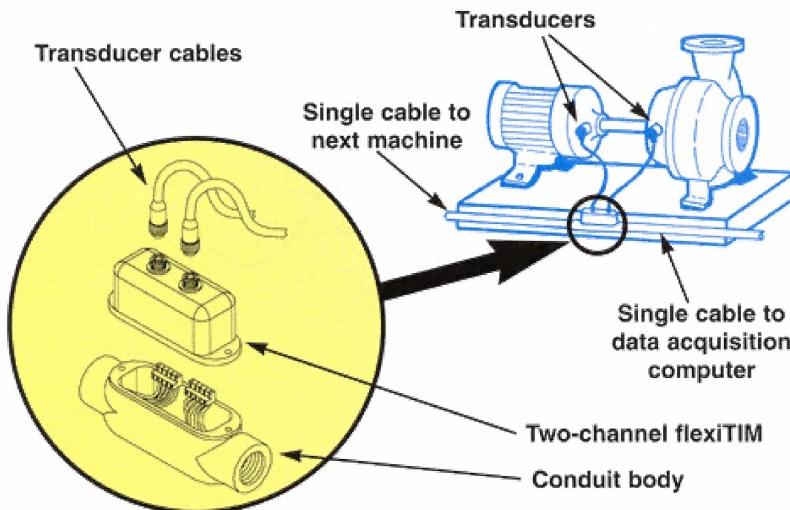


Figure 1

Detail drawing of the new two-channel flexiTIM™ for Trendmaster® 2000 showing a typical installation on a motor/pump set.